

REMARKS

Prosecution

Applicants respectfully request reconsideration of the outstanding rejections in view of Applicants' instant claim amendments and the following Remarks.

Claim Amendments

Upon entry of the foregoing amendment, claims 1 and 10 are pending in the application. Claims 1 and 10 are amended. Support for the claim amendments can be found throughout the specification and in the claims as originally filed, and, in particular, on page 15, lines 6-21; page 24, line 21 to page 25, line 2; page 62; and Examples 8-11. Applicants respectfully request entry of the above amendment and submit that the above amendment does not constitute new matter. Applicants further reserve the right to pursue cancelled subject matter in divisional and/or continuation applications.

Objection to the Specification

The specification was objected to because of informalities.

Applicants amended the specification rendering this objection *moot*.

Objection to the Claims

Claims 1 and 10 were objected to because of informalities.

Applicants amended these claims rendering this objection *moot*.

Drawings

Figure 1 was objected to because of informalities. Applicants have provided a Replacement Drawing pursuant to 37 C.F.R. §§ 1.185 and 1.121(d) where they have changed the number "329" to "330", "380" to "381", and "431" to "432" to remedy the sequence numbering error. Applicants believe that after entry of the replacement drawing, the sequence in Figure 1 will be correctly numbered.

Reconsideration and withdrawal of the objection is respectfully requested.

35 U.S.C. § 112, first paragraph (enablement)

Claim 1 was rejected under 35 U.S.C. § 112, first paragraph, because the specification, while being enabling for the embodiment of claim 1 wherein said breed determinant gene is *αMSHR*, does not reasonably provide enablement for the embodiment of claim 1 wherein said breed determinant gene is *KIT*.

Applicants amended claim 1 rendering the rejection *moot*.

CONCLUSION

Applicants respectfully submit that all of the claims are in condition for allowance, and such disposition is earnestly solicited. Should the Examiner believe that any issues remain after consideration of this Response, the Examiner is invited to contact the Applicants' undersigned representative to discuss and resolve such issues. In the event that a variance exists between the amount tendered and that deemed necessary by the U.S. Patent and Trademark Office to enter and consider this Response or to maintain the present application pending, please credit or charge such variance to the undersigned's **Deposit Account No. 50-0206**.

Respectfully submitted,

HUNTON AND WILLIAMS, LLP

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By:



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LHP/CJN:cdh

FIG. 1

[illegible]

Annotated Sheet

																	431 432
Wildboar	TGC	GGC	TCC	ATG	GTG	TCC	AGC	CTC	TGC	TTC	CTG	GGC	GCC	ATC	GCC	GTG	GAC
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	483
Wildboar	CGC	TAC	GTG	TCC	ATC	TTC	TAC	GCG	CTG	CGC	TAC	CAC	AGC	ATC	GTG	ACG	CTG
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	534
Wildboar	CCC	CGC	GCG	GGG	CGG	GCT	ATC	GCG	GCG	ATC	TGG	GCG	GGC	AGC	GTG	CTC	TCC
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	T	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	585
Wildboar	AGC	ACC	CTC	TTC	ATC	GCC	TAC	TAC	CAC	CAC	ACG	GCC	GTC	CTG	CTG	GGC	CTC
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	636
Wildboar	GTC	AGC	TTC	TTC	GTG	GCC	ATG	CTG	GCG	CTC	ATG	GCG	GTA	CTG	TAC	GTC	CAC
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	687
Wildboar	ATG	CTG	GCC	CGG	GCC	TGC	CAG	CAC	GGC	CGG	CAC	ATC	GCC	CGG	CTC	CAC	AAG
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
																	738
Wildboar	ACG	CAG	CAC	CCC	ACC	CGC	CAG	GGC	TGC	GGC	CTC	AAG	GGC	GCG	GCC	ACC	CTC
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	A	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	A	...	...	...

FIG. 1 CONT'D

Annotated Sheet

Wildboar	ACC	ATC	CTG	CTG	GGC	GTC	TTC	CTC	CTC	TGC	TGG	GCA	CCC	TTC	TTC	CTG	789
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Wildboar	CTC	TCC	CTC	GTC	GTC	CTC	TGC	CCC	CAG	CAC	CCC	ACC	TGC	GGC	TGC	GTC	840
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Wildboar	AAG	AAC	GTC	AAC	CTC	TTT	CTG	GCC	CTC	GTC	ATC	TGC	AAC	TCC	ATC	885
Meishan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pietrain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Largewhite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Duroc	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

b. Amino acid sequence

Wildboar	?PNGLF	LSLG	LVSL	VEN	VLV	VAAIA	KNRNL	HSPMY	YFVCC	LAVSD	LLVSV	SNVLE	TA	VLL	99
Meishan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..M...	...	..P	
Largewhite	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hampshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Duroc	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wildboar	LLEAG	ALAAQ	AAVVQ	QLDNV	MDVLI	CGSMV	SSLCF	LGAIA	VDRYV	SIFYA	LRYSI	VTLP	159
Meishan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Largewhite	.....	.....	.....	.....	..N...	.....	.....	.....	.....	.....	.....	.....
Hampshire	.....	.....	.....	.....	..N...	.....	.....	.....	.....	.....	.....	.....
Duroc	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wildboar	RAGRA	IAAIW	AGSVL	SSTLF	IAYYH	HTAVL	LGLVS	FFVAM	LALMA	VLYVH	MLARAC	QHGR	219
Meishan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Largewhite	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hampshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Duroc	..V...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wildboar	HIARL	HKTQH	PTROG	CGLKG	AATLT	ILLGV	FLLCW	APFFL	HLSLV	VLCPO	HPTCG	CVFKN	279
Meishan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Largewhite	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hampshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Duroc	.....	.....	.....	.....	..T...	.....	.....	.....	.....	.....	.....	.....

Wildboar	VNLFL	ALVIC	NSI
Meishan	.....	.....	.....
Largewhite	.....	.....	.....
Hampshire	.....	.....	.....
Duroc	.....	.....	.....

FIG. 1 CON'T